

**Amendment**

Applicant: Paul Lecoq  
Serial No.: 09/892,201  
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Docket: K316.105.101  
Title: PET SCANNER

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a patient area,

a detector ring for detecting radiation from opposite sides of the patient area, the ring including a plurality of scintillation detectors directed towards the patient area, the scintillation detectors being such as to emit light when radiation is incident thereon, and converting means optically coupled to the scintillation detectors for converting light emitted by the scintillation detectors to electrical pulses, wherein the scintillation detectors comprise one of LuAP and LuYAP.

38. A camera or scanner as claimed in claim 37, wherein the converting means comprise photomultiplier tubes.

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39. A camera or scanner as claimed in claim 37, wherein the converting means comprise photodiodes and/or avalanche photodiodes.

40. A camera or scanner as claimed in claim 37, wherein the scintillation detectors comprise another layer of scintillating crystal.

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